Summary of USPWS Partnership Grant for Amphibian/Reptile Jurieys

Jet Boundy LDWF

## CAT ISLAND NATIONAL WILDLIFE REFUGE

Owner: The Nature Conservancy (part), U. S. Fish & Wildlife Service (part), George Woodside (part)

**Site Location:** I surveyed two blocks due to persistent flooding of one of the sites: **1) Blackfork Bayou**, approximately 40 acre block on the NE side of Blackfork Bayou and SE of the refuge road, near the center of irregular Section 75, T3S, R3W, centered at 0.3 mi N, 4.2 mi W of St. Francisville (jct of LA 3057 X LA 10), West Feliciana Parish, Louisiana, approximately 30°47.0' N, 91°26.5' W. **2) Woodside Property**, approximately 80 acres in NW end of triangular Section 76, T3S, R3W, centered at 1.1 mi N, 4.2 mi W of St. Francisville, at approximately 30°47.4 N, 91°26.5' W.

**Setting**: Both sites are on unleveed Mississippi River floodplain, at roughly 36-40 ft elevation, with a shallow, meandering slough (Blackfork Bayou) passing along one side.

Habitat: The entire site consists of bottomland hardwoods: (sugarberry, overcup oak, bitter pecan, honey locust, cypress, black willow, river birch, etc.). The canopy is closed, with trees fairly old and widely spaced, producing a parklike setting with little ground cover or midstory. The entire site is inundated at times, and twice during the present survey period, with water levels of 1-6 feet. There is a lot of downed woody debris, which is shifted during flooding. The Woodside Property is up to 4 ft higher in elevation than Blackfork Bayou, so floods less, and has more river birch.

## Survey summary:

2001: 12 September (Blackfork)

26 October (Blackfork)

4 December (Blackfork)

2002: 17 January (Blackfork)

19 February (Woodside)

18 March (Woodside)

10 May (Woodside)

9 July (Woodside)

16 July (Blackfork)

Bottomland hardwoods

24.21 hours

Herpetofauna: 46 species of amphibians and reptiles are expected to occur on the site, of which 18 (39%) were observed, and one additional species was found near the boundary of the Woodside property. No rare, threatened or endangered species are expected to occur on or near the site. The only species of interest likely to occur on the site is the alligator snapping turtle (Macroclemys temminckii). I was surprised by the absence of several species: ground skink (Scincella lateralis; although seen along road near entrance gate), cricket frogs (Acris crepitans),

diamondback water snake (Nerodia rhombifer), and ribbon snake (Thamnophis proximus). The composition of the Blackfork site was strictly aquatic or semi-arboreal species. Only 11 species were found there vs. 18 at the Woodside site. The disparity is probably due to 1) increased duration of flooding at the Blackfork site, and 2) survey season of fall, winter and summer at Blackfork, vs. late winter and spring at Woodside.

Only 182 total animals were seen (7.52 per hour), and 67 (37%) of these were leopard frogs (*Rana utricularia*). The nine anuran species observed comprised 81% of all animals seen. There is no particular herpetofaunal interest to the site, and all of the species encountered are generally abundant or common over most of southern Louisiana. However, the site provides a very large block of bottomland hardwood habitat. Although there has been cutting in certain portions, it will probably not effect the dispersal of species between more pristine blocks. The continuity of areas with differential flooding provides an opportunity to determine the effects the flooding regime has on species composition at sites.

# CAT ISLAND NWR HABITATS Specimens/hour

SPECIES	Botton	n Hard
Fowler's toad (Bufo fowleri)		0.45
Lesser gray tree frog (Hyla chrysoscelis)	call	.08
Green tree frog (Hyla cinerea)	call	.41
Squirrel tree frog (Hyla squirella)	call	.74
Spring peeper (Pseudacris crucifer)	call	.12
Upland chorus frog (Pseudacris feriarum)	call	.17
Green frog (Rana clamitans)		0.91
Southern leopard frog (Rana utricularia)		2.77
Eastern narrow-mouthed toad (Gastrophryne carolinensis)		0.41
Common box turtle (Terrapene carolina)		0.04
Pond slider (Trachemys scripta)		0.08
Carolina Green anole (Anolis carolinensis)		0.66
Common five-lined skink (Eumeces fasciatus)		0.08
Broad-headed skink (Eumeces laticeps)		0.04
Gray rat snake (Elaphe spiloides)		0.04
Plain-bellied water snake (Nerodia erythrogaster)		0.21
Banded water snake (Nerodia fasciata)		0.25
Cottonmouth (Agkistrodon piscivorus)		0.04

# 2001: 12 September: LA: West Feliciana Par: Cat Island National Wildlife Refuge with P. Faulkner, V. Rettig

7 Bufo fowleri

1 Gastrophryne carolinensis

1 Rana clamitans clamitans

2 Nerodia erythrogaster flavigaster

4 Rana utricularia utricularia

1 Nerodia fasciata confluens

Virginia guided us to the east entrance to the refuge and we stopped on the dirt road just E of the crossing of Blackfork Bayou. The area is mostly closed canopy hardwood forest (sugarberry, overcup oak, bitter pecan, honey locust, cypress, black willow, etc.), with remnant pools scattered about. The bayou has willow and cypress growing in it, and today was about 30 ft across. Virginia pointed out that the inundation line on the trees was over 5 feet high, and that the area floods for some time, often twice each year when the Mississippi River comes up.

0935-1108; start T=79F, ending T=81F; clear at start and end but overcast during most of survey time. I spent a lot of time looking under logs on the clean forest floor, the rest of the time swatting mosquitos. All I saw out was a newly metamorphosed Fowler's toad about 0.5" long. Under logs I found some larger Fowler's toads (0.7-1.2"), a narrowmouth toad, an adult bronze frog, and adult and three subadult leopard frogs, and neonate yellow-bellied and banded water snakes, all a month to three months old probably. Both yellowbellys flattened out and bit when picked up.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method Stage
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	6	3.87	VES juv
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	1	0.65	VES nmet
bottomland hardwoods	1.55	81	overcast	Bufo fowleri	7	4.52	VES combd
bottomland hardwoods	1.55	81	overcast	Gastrophryne carolinensis	1	0.65	VES ad
bottomland hardwoods	1.55	81	part cloud	Nerodia erythrogaster	1	0.65	VES neon
bottomland hardwoods	1.55	81	overcast	Nerodia erythrogaster	1	0.65	VES neon
bottomland hardwoods	1.55	81		Nerodia erythrogaster	2	1.29	VES combd
bottomland hardwoods	1.55	81	overcast	Nerodia fasciata	1	0.65	VES n
bottomland hardwoods	1.55	81	overcast	Rana clamitans	1	0.65	VES juv
bottomland hardwoods	1.55	81	overcast	Rana utricularia	3	1.94	VES juv
bottomland hardwoods	1.55	81	overcast	Rana utricularia	1	0.65	VES ad
bottomland hardwoods	1.55	81	overcast	Rana utricularia	4	2.58	VES combd

SITE LA: W. Feliciana Par: Cat Island, SE portion

DATE 12 Sept. 2001

PERSONNEL Jeff Boundy, Patti Faullener, Virginia Rettig

CLIMATE previous: humid, in 80s; last rain on 8-9 Sept.

today: clear except during survey period; low 80's

	Taxon / Location	Activity / Microhabitat	Notes / Weather
0935	START	bottomland hardwoods	clear, 79°
	Buto towleri (2)	under log	reonate / inv.
	Rana utricularia (1)	4	iuv.
	Buto towler; (2) Rana utricularia (1) Nerodia erythrogaster (1)	ı,	neonate/juv. juv. neonate
1004		same	overcast 81°
	Rana uto'cularia (1)	under log	adult
1038		same	overcast, 81°
	Buto fowler (1)	under log	metamorph
	" (4)	under log	juv.
	Rana utricularia (2)	<b>5</b> U	juv.
	Rana utricularia (2) Gastrophryne Carolinasis (1) Werodia erythrogaster (1) Nerodia fasciata (1) Rana clamitans (1)	D .	adult
	Verodia erythrogaster (1)	y .	nconate
	Nerodia fasciata (1)	)) <u> </u>	b
	Rana clamitans (1)	μ = ·	jav.
1108	END		jav. Clear
			*
	10-14-14-14-14-14-14-14-14-14-14-14-14-14-	# # ## ## ## ## ## ## ## ## ## ## ## ##	
74		2	

## 2001: 26 October: LA: West Feliciana Par: Cat Island Swamp National Wildlife Refuge

1 Bufo fowleri

3 Rana utricularia utricularia

1 Hyla cinerea

1 Trachemys scripta elegans

6 Rana clamitans clamitans

2 Nerodia fasciata confluens

It had been often overcast and very humid, up to about 80°F through the night of the 24<sup>th</sup>, but a cool front from the north had come in, dropping last night's lows to the upper 40s. I drove onto the refuge and saw a redear basking on a log in the roadside ditch. I hunted the same tract as on 12 Sept.

I started at 1100; clear, breezy, 64°F. During the next half hour I saw a juv bronze frog under a log, and an adult leopard frog and green treefrog under another. The slough that bisects the tract was very low, rarely over a foot deep. Along it I found three more small bronze frogs under logs at the margin of the damp zone.

I walked onto the flat woods at 1212 (67°F) and saw under logs 2 juv bronze frogs and 2 juv banded water snakes. One of the snakes had the tip of its snout sticking out from under the log in a sunned spot. I also found a juv Fowler's toad out on the ground back towards the slough.

I crossed the slough again around 1300 (69°F), and saw an adult bronze frog under a log near shore. I looked through the woods again until 1401 (70°F) but saw only an adult leopard frog under a log.

Habitat	Hours	T-air	Weather	Species	N	N/Hour	Method	Stage
bottomland hardwoods	3.02	65	clear	Rana clamitans	5	1.66	VES	juv
bottomland hardwoods	3.02	69	clear	Rana clamitans	1	0.33	VES	ad
bottomland hardwoods	3.02		clear	Rana clamitans	6	1.99	VES	combd
bottomland hardwoods	3.02	64	clear	Hyla cinerea	1	0.33	VES	ad
bottomland hardwoods	3.02	64	clear	Rana utricularia	1	0.33	VES	ad
bottomland hardwoods	3.02	70	clear	Rana utricularia	1	0.33	VES	ad
bottomland hardwoods	3.02	68	clear	Rana utricularia	1	0.33	VES	juv
bottomland hardwoods	3.02		clear	Rana utricularia	3	0.99	VES	combd
bottomland hardwoods	3.02	67	clear	Nerodia fasciata	2	0.66	VES	juv
bottomland hardwoods	3.02	67	clear	Bufo fowleri	1	0.33	VES	juv

SITE LA: W. Feliciana Par: Cat Island Swamp N. W.R., SE pottion

DATE 26 Od. 2001

PERSONNEL J. Boundy

CLIMATE humid, to -80°, often overcast, but no rainfall thru night of 24th Since -- clear, breezy, highs to 70°; lows to upper 40s.

I / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1100		bottomland hardwoods (all)	clear, breezy, 64°.
100	Rana clamitans (1)	under log	140.
	Hylacinerea (1)	"	adult
	Rona utricularia (1)	0	
129			
427	3.	3	65°
	Rana clamitans (3)	under log	lur.
			J
1212			670
	Rana Clamitans (1)	underlog	juv
	Nerodia fasciata (1)	u J	, h
1)67		4	
1242	1		•
У.	K) to tower (1)	out on ground	inv.
	Rana utricularia (1)	underlog	assed inv.
	Nerodia fasciata (1)	u J	juv.
	,		
1309			
	Rana clamitans (1)	under log nr. slongh	adulf
		3 0	
1328			
	Rana utricularia (1)	under log	adult
1401	END		70° clear, broezy
		<del>,</del>	
		<del></del>	550

#### 2001: 4 December: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 Bufo fowleri

5 Rana clamitans clamitans

2 Hyla cinerea

9 Rana utricularia utricularia

1 Hyla squirella

2 Trachemys scripta elegans

Pseudacris crucifer crucifer heard

1 Anolis carolinensis carolinensis

1 Pseudacris feriarum

There had been some moderate rains on 29 Nov, after which it turned cool, clear, breezy, and low humidity (lows in upper 30s, highs 60s). The past several days have had increasing temperatures, but relatively low humidity. Last night the low was in the upper 50s, and today the high was in the mid 70s, clear with low humidity.

As I drove toward the site (0938) I found a big female redear crossing the dirt road between two open grass sloughs about a half mile E of the survey site (Blackfork Bayou). I started the survey at 0945 (air T 60°) at the trailhead, and cut straight S through the forest. It was breezy, with low humidity. By 1012 it was 64°F. Until 1045 all I found was a juv leopard frog under a log. By 1046 it was 69°F. I found 2 adult leopards, and adult bronze frog, and adult green treefrog under logs.

At 1111 (air T 70°F) I found 2 more adult leopards under logs, and an adult female chorus frog under a log. In this region there were a number of low spots with water. At 1131 it was still 70°F. I heard a spring peeper call, found 2 adult bronze frogs under logs at a pool, found a juv bronze frog under a log, and 3 adult leopards under logs. At 1210 (still 70°F) I cut west toward the slough, where I saw an adult redear at the surface. I worked my way back toward the trailhead near the slough, and found under logs an adult green treefrog, an adult bronze frog, a juv squirrel treefrog, 2 adult leopard frogs, one of which was gravid, and a juv Fowler's toad. I also saw a juv anole jump onto a small tree trunk. I ended back at the trailhead at 1251 (air T 74°F).

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.1	62	clear Rana utricularia	1	0.32	VES juv
bottomland hardwoods	3.1	71	clear Rana utricularia	8	2.58	VES ad
bottomland hardwoods	3.1	71	clear Rana clamitans	5	1.61	VES ad
bottomland hardwoods	3.1	71	clear Hyla cinerea	2	0.65	VES ad
bottomland hardwoods	3.1	71	clear Pseudacris feriarum	1	0.32	VES ad
bottomland hardwoods	3.1	71	clear Pseudacris crucifer	h	х	call ad
bottomland hardwoods	3.1	71	clear Trachemys scripta	1	0.32	VES ad
bottomland hardwoods	3.1	71	clear Hyla squirella	1	0.32	VES juv
bottomland hardwoods	3.1	71	clear Bufo fowleri	1	0.32	VES juv
bottomland hardwoods	3.1	71	clear Anolis carolinensis	1	0.32	VES juv
bottomland hardwoods	3.1	71	clear Rana utricularia	9	2.9	VES combd

PERSONNEL J. Boundy

CLIMATE: past: Some nain on 11/29; clear, cool/cold on 11/30 of gradually warming today: clear, breezy, mod. humidity; low in upper 503; highs to mil 70s.

	Taxon / Location	Activity / Microhabitat	Notes / Weather
0945		bottomland hardwoods	clear, 60°.
1012			Clear, 640
	Rana classitus utricularia	(1) under log	juv.
1046			clear, 69°.
	Rana utricularia (2)	under logs	adults
() — — — — — — — — — — — — — — — — — — —	Rana Clamitans (1) Hyla Cinerea (1)	1,	- N
1111	.,•		clear, 70°.
	Rana utricularia (2)	under logs	clear, 70°.
	Pseudarris feriarum (1)	1)	adult 9
1131			dear, 70°.
	Pseudacris cruciter (heard)		one heard
	Runa clamitans (2)	under logs at pool	adults
	Rana utvicularia (3)	in pool	jav. adults
	Thene (All residence (3)	anaze 1093	abunts
1210			Clear , 70°.
	Trachemys Scripta (1)	in slough	adult
	Hyla cinerea (1)	under log	١,
	Rana clamitms (1)	4)	adult
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hyla squirella (1)	4	juv.
	Hyla squivella (1) Rana divisal aria (1)	11	adult 9, gravid
	))	и	adult 9, gravid
	Buto fowler: (1)	<i>h</i>	juv.
· ·	Anolis carolinensis (1)	on tree	
1257	END		Clear, 74°.
all .			
	2	2 2	F1

### 2002: 17 January: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 Hyla cinerea

5 Trachemys scripta elegans

Pseudacris feriarum (heard)

1 Nerodia fasciata confluens

1 Rana utricularia utricularia

Virginia Rettig told me she had just opened the gate last night as the water level had dropped. She said that the water had been up since mid-December at levels reaching 8 feet in the forest, and I could see the water mark on the trees on my survey site at about 4-6 feet. A light, cold rain had fallen on the 12<sup>th</sup>, and temperatures had tended to be cool to cold since, with lows in the 30s and highs near 60°F. Yesterday morning there was frost, but last night's low was 43°F. The wind had begun to shift from the south, and it was overcast and slightly humid.

I started at 1020 (air T 61°F), and headed SE through the stand of hardwoods. At 1101 it was 63°, at 1122 it was 66°, and at 1130 there was partial breaking of the cloud cover. The ground was covered with wet leaves, acorns, pecans and twigs. Most of the logs had clearly been raised, then lowered during the high water, but some had remained intact as there was bare ground and crawfish burrows beneath. The water was receded to the back of the stand, leaving small pools in the low spots, and Black Fork slough was within its embankments.

At 1146 it was partly cloudy and 66°F. I saw nothing until nearly noon, when I found an adult leopard frog under a log just above the slough. The ground here was slightly higher, as the water mark was around 2.5-3 ft on the trees. At 1215 it was 68°F and I found a juv banded water snake, sluggish, coiled under a log that hadn't moved on the higher ground. The T under the log was 59°F.

By 1249 it was still partly cloudy and 71°F. Shortly thereafter I found an adult green treefrog under bark on a snag 1.5 feet above the water mark. The cloud cover had begun to increase by the time I finished at 1321 (air T 71°F).

I drove out on the dirt road, and in the slough I saw five adult redears on a log. In the shallower tip of the slough near the entrance gate I heard 4 chorus frogs calling.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.01	63	overcast x	×	х	VES x
bottomland hardwoods	3.01	68	part cloud Hyla cinerea	1	0.33	VES ad
bottomland hardwoods	3.01	68	part cloud Rana utricularia	1	0.33	VES ad
bottomland hardwoods	3.01	68	part cloud Nerodia fasciata	1	0.33	VES juv

PERSONNEL J. Boundy

flooded up to 6 ft. on sight at mid Dec. - early Jan.

CLIMATE past few days generally cold/cool (lows in 30s, highs ~60°); frost yesterday morning.

today: nightline low ~43°; todays high barely over 70°, but with wind from south

overcast all morning, breaking slightly ~1130.

1 / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1020	START	bottomland hardwoods	avercast, 61°
1101			overcast, 63°.
1122			overcast, 66°.
1130			partial cleaning
1146	Rana utricularia (1)	in Acro de m	partly cloudy, 660 adult
1215	(1)	under 169	
1210	Nerodía fasciata(1)	underlog (59° under log)	partly cloudy, 680
1249	Hyla wherea (1)	under bark on snag	partly cloudy, 710 adult
/32/	END		mostly cloudy, 71°.

### 2002: 19 February: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 Hyla chrysoscelis

5 Hyla cinerea

11 Hyla squirella

1 Pseudacris crucifer crucifer

1 Pseudacris feriarum (and heard)

3 Rana clamitans clamitans

3 Rana utricularia utricularia

4 Gastrophryne carolinensis

11 Anolis carolinensis carolinensis

1 Scincella lateralis

1 Eumeces fasciatus

1 Agkistrodon piscivorus leucostoma

The refuge gate was closed, so I surveyed George Woodside's property SW of the refuge road about 200 yards from the gate. The past few days had been warm (lows upper 40s, low 50s, highs low to mid 70s). Today was overcast, with a wind from the south, moderate humidity, and expected high of 75°F. This property, near the road, is somewhat higher than the rest of the swamp, and appears not to have flooded. There was a tendency for more river birch in here, and fewer bitter pecans. Within about 100 yards of the road there was evidence of minor flooding, and there was a lot of water in low spots, with a small, shallow slough running through. This latter area had a lot of flotsom (leaves, twigs) all over, whereas the "upper" portion had a dense carpet of dry leaves.

I started at the S corner of the woodlot at 1022 (air T 69°F). As I went off the road I saw a scincella in the leaves and branches heaped there. There are a lot of logs on the ground, and no ground cover vegetation nor midstory. Under logs I saw 2 adult anoles, an adult green treefrog, a juv narrowmouth toad, 5 juv and 2 adult squirrel treefrogs. Inside a small log was a juv fiveline skink, somewhat lethargic, but still managed to escape. At 1053 it was still 69°F. Under more logs I found another juv narrowmouth toad, a subadult green treefrog, a juv squirrel treefrog, and an adult anole. In a snag I found two more adult anoles. At 1109, weather unchanged, I found 2 adult green treefrogs, a leopard frog, and two bronze frogs, under logs.

I was into the lower zone by 1120, and found an adult male spring peeper jumping in the leaves. At 1131 it was 70°F. I found an adult and juv anole in a snag, and saw an adult basking on a tire. Under a log in a wet depression I got and adult male chorus frog and a leopard frog. Under other logs I found an adult green treefrog, a bronze frog (near the slough), and a juv cottonmouth. At 1202 it was still 70°F. I found a dead leopard frog, unmarked and about a day old, lying next to a log near the slough.

At 1228 I got back toward the higher ground, and heard a chorus frog give a brief call. At 1250 the temperature had risen to 75°F. Under logs I found two juv narrowmouth toads, a juv gray treefrog, and an adult anole. I heard a couple of chorus frogs call briefly, and saw two adult anoles on logs. I found a juv squirrel treefrog inside a damp log, and found an adult inside a pulpy snag.

I got out of the woods at 1324 (air T 75°F). Back at the truck I heard a couple of chorus frogs call from the slough along the road. It was notable that squirrel treefrogs were limited to the drier part of the forest.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	5	1.65	VES ad
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	3	0.99	VES juv
bottomland hardwoods	3.03	70	overcast Anolis carolinensis	8	2.64	VES combd
bottomland hardwoods	3.03	70	overcast Hyla cinerea	5	1.65	VES ad
bottomland hardwoods	3.03	70	overcast Gastrophryne carolinensis	2	0.66	VES juv
bottomland hardwoods	3.03	70	overcast Eumeces fasciatus	1	0.33	VES juv
bottomland hardwoods	3.03	70	overcast Hyla squirella	7	2.31	VES juv
bottomland hardwoods	3.03	70	overcast Hyla squirella	2	0.66	VES ad
bottomland hardwoods	3.03	70	overcast Hyla squirella	9	2.97	VES combd
bottomland hardwoods	3.03	70	overcast Rana utricularia	2	0.66	VES ad
bottomland hardwoods	3.03	70	overcast Rana clamitans	3	0.99	VES ad
bottomland hardwoods	3.03	70	overcast Pseudacris feriarum	1	0.33	VES ad
bottomland hardwoods	3.03	70	overcast Pseudacris crucifer	1	0.33	VES ad
bottomland hardwoods	3.03	70	overcast Agkistrodon piscivorus	1	0.33	VES juv
bottomland hardwoods	3.03	75	overcast Pseudacris feriarum	h	level 1	call ad
bottomland hardwoods	3.03	75	overcast Gastrophryne carolinensis	2	0.66	VES juv
bottomland hardwoods	3.03	x	overcast Gastrophryne carolinensis	4	1.32	VES combd
bottomland hardwoods	3.03	- 75	overcast Hyla squirella	2	0.66	VES juv
bottomland hardwoods	3.03	x	overcast Hyla squirella	11	3.63	VES combd
bottomland hardwoods	3.03	75	overcast Hyla chrysoscelis	1	0.33	VES juv
bottomland hardwoods	3.03	75	overcast Anolis carolinensis	3	0.99	VES ad
bottomland hardwoods	3.03	x	overcast Anolis carolinensis	11	3.63	VES combd

SITE LA: W. Feliciana Par; Cat Island Swamp; George Woodford Property DATE 19 Feb. 2002

PERSONNEL J. Boundy

CLIMATE: past few days: fairly warm - lows upper 40s/low 50s, highs ~70-75.

today: arreast, windy (from south); high supposed to reach upper 705.; moderate humidity.

V / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1022	START	bottom hardwoods	overcast, 69.
	Anolis Carolinensis (2)	underlogs	adults
	Hyla cinerca (1)	. · · ·	L,
	Gastropheyne carolinensis (1)	n	inv.
	Eumices fasciatus (1)	inside log	J.,
	Hylasquirella (5)	under logs	3 6 6
	" (2)	At	aduts
	(1)	out interves on ground	، لامِن
	(4)	, , , , , , , , , , , , , , , , , , ,	J
1053			overcast, 69°.
	Gastrophryne carolinensis (1)	under log	
	Hyla cinerca (1)	, J	jnv. subadult
	Hyla Squirella (1)	t)	juv.
	Andis Carolinensis (2)	in snag	ı,
	h (1)	under log	adult
	ja vijeni se je		
1109		×	
	Hyla cinerca (2)	underlog	adult
	Rama utricularia (1)	n , 1	V
	Hyla cinerea (2) Rama utricularia (1) Rama clamitans (2)	n	,,
1120		· · · · · · · · · · · · · · · · · · ·	
	Pseudassis crucifer (1)	out on ground	adulf 8
1131			overcal, 70°.
	Anolis carolinensis (2)	in snag	adult + juv.
	<i>"</i> (i)	on the	adult + juv.
	Hyla cinerea (1)	undulog	0
	Pseudacris feriarum (1)	)	adult 7
	Rana utricularia (1)	N	adult
	Rana clamitans (1)	Ч	0
	Aduistodon piscivorus (1)	Li	juv.
	U		J
1202			overcast, 70°.
	Rana utricularia (1)	Read near slough	adult

p.272

SITE LA: W. Feliciana Par: Cat Island Swamp

DATE 19 Feb. 2002

PERSONNEL

CLIMATE

V / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1228			The state of the s
	Psendacris Feriarum (heard)	'A	I call (bnief)
14			700 (0.14)
/250			overcast, 76°.
	Gastrophyme carolinensis (2)	under loss	ilar e
	Hula Sunvella (1)	in loc	jyv.
	Gastrophrynecarolinensis (2) Hyla squirella (1)	in log in stump under log	
	Hula Chrusoscebis (1)	lenderlog	adult  Juv.  2 calling  adults
-	Hyla Chrysosceh's (1) 13cu dacris feriarum (heard) Anolis Carolinensis (2)	342043	2 calling
	Anolis Carolinensis (2)	anlast	adults.
	1 /1Y	on logs under log	L)
		4.24	1
1324	END		overcast, 750
1301		X 70 (3)	overcast) /5°
	The second secon	107 - 118 W. F. 11 S	
7		14	
7			<del></del>
		8	***************************************
	***************************************		
		5	

#### 2002: 18 March: LA: West Feliciana Par: Cat Island National Wildlife Refuge

1 *Hyla chrysoscelis* (+heard)

1 Hyla cinerea

5 Hyla squirella

1 Rana clamitans clamitans 26 Rana utricularia utricularia

5 Gastrophryne carolinensis

1 Terrapene carolina major

1 Trachemys scripta elegans

6 Anolis carolinensis carolinensis

1 Eumeces fasciatus

1 Eumeces laticeps

1 Agkistrodon piscivorus leucostoma

The water level was down, but the Nature Conservancy gate was locked, so I searched the Woodside property off the SE boundary of the refuge. As I drove on the dirt road back from the TNC gate I saw a redear on a log in the slough and an adult cottonmouth lying in the sharp hook in the road between low, wet spots. The last rain in the area was the night of the 12th-13th, with a short cloudburst on the morning of the 16<sup>th</sup>. The past few days have been very humid, often overcast, with lows in the 60s and highs in the 70s. Last night the low was around 70°F. There was about 60% cloudcover, very humid, with a south breeze.

I started into the Woodside property from about ½ mi from the Cat Island gate at 1025 (air T 80°F). I saw an adult anole on a tree trunk, an adult fiveline skink in a snag, and a leopard frog at a small pool on the forest floor. From 1103 (air T 80°F) -1138 I saw 2 leopard frogs under a log at a short, shallow slough, 2 anoles on tree trunks, and a big box turtle sitting out.

From 1139 (81°F) -1203 I found a subadult broadhead skink, still fully striped, in a snag, a juv narrowmouth toad under a log, 2 adult leopard frogs under logs near water, an adult squirrel tree frog (almost white with pale brown spots) on the side of a snag, and heard a gray treefrog call briefly. From 1204 (air T 82°F) -1234 I saw 5 adult leopard frogs jump into a small, isolated slough, found one under a log nearby, and found a juvenile inside a wet, pulpy log. I found another juv narrowmouth toad under a log, and heard another gray tree frog call.

From 1235 (air T 85°F) -1251 I heard another gray tree frog, found an adult narrowmouth toad under a log, a juv gray tree frog in a snag, 2 juv squirrel tree frogs on the ground in leaves, and an adult anole on a stump. From 1252-1306 I saw 12 adult leopard frogs jump into a slough section about 10 ft across and perhaps 1.5 ft deep. Starting at 1307 I saw under logs 2 adult narrowmouth toads and a green tree frog. I saw an anole on a tree trunk and another on a log. I found 2 juv squirrel tree frogs in a snag, and heard individual gray tree frogs call twice. At a low, shallow marshy spot I saw one bronze frog and two leopard frogs. I ended at 1329 (air T 87°F).

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	3.07	81	part cloud Anolis carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	81	part cloud Eumeces fasciatus	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Rana utricularia	11	3.58	VES ad
bottomland hardwoods	3.07	81	part cloud Rana utricularia	1	0.33	VES juv
bottomland hardwoods	3.07	81	part cloud Terrapene carolina	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Eumeces laticeps	1	0.33	VES ad
bottomland hardwoods	3.07	81	part cloud Gastrophryne carolinensis	2	0.65	VES juv
bottomland hardwoods	3.07	81	part cloud Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	3.07	81	part cloud Hyla squirella	1	0.33	VES ad
bottomland hardwoods	3.07	85	part cloud Gastrophryne carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	x	part cloud Gastrophryne carolinensis	5	1.63	VES combd
bottomland hardwoods	3.07	85	part cloud Hyla chrysoscelis	1	0.33	VES juv
bottomland hardwoods	3.07	85	part cloud Hyla chrysoscelis	X	level 1	call ad
bottomland hardwoods	3.07	85	part cloud Hyla squirella	4	1.3	VES juv
bottomland hardwoods	3.07	х	part cloud Hyla squirella	5	1.63	VES combd
bottomland hardwoods	3.07	85	part cloud Anolis carolinensis	3	0.98	VES ad
bottomland hardwoods	3.07	х	part cloud Anolis carolinensis	6	1.95	VES combd
bottomland hardwoods	3.07	85	part cloud Rana utricularia	14	4.56	VES ad
bottomland hardwoods	3:07	×	part cloud Rana utricularia	26	8.47	VES combd
bottomland hardwoods	3.07	85	part cloud Rana clamitans	1	0.33	VES ad
bottomland hardwoods	3.07	85	part cloud Hyla cinerea	1	0.33	VES ad

SITE LA: W. Feliciana Par: Cat Island Swamp, woodford portion

DATE 18 March 2002

PERSONNEL J. Boundy

CLIMATE No rain since 3/12, except for quich cloudburst morning of 3/16. Generally very humid, usually overcast, lows 60s highs >80 most days.

Today: same, last night low in low 70s. , today's high in upper 80s.; usually ~60% cloudcare

I / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1025	START	bottom hardwoods	partty Clear, 80°.
	Anolis carolinensis (1)	antree	adult
	Eumeces fascintus (1)	in snaq	11
	Rana utricularia (1)	at pobl	"
1103			80°.
	Ranautrialaria (2)	under log nr. water	adutts
	Anolis carolinensis (2)	on trees	L)
	Terrapene Carolina (i)	out on ground	1)
1139			81°.
	Eumaces latinps (1)	in snag	enbadult
	Gastrophryne Carolinensi's (1)	under log	
	Hula chrusoccelis (call)	J	juv. I book calling adults
	Rana utricularia (2)	under logs no. water	adults
	Hyla Squirella (1)	on Snag	1)
1204		*	82 €
	Rana intricularia (1)	under log	adult
	. (5)	at pool - in log under log	4
	· (1)	in Isa	juv.
	Gastinphyne Carolinansis (1)	under log	"
	Gastinphyne Capolinansis (1) Hyla chaycosielis (cell)		Leard 1
1235			85°.
	Gastrophayne Carolinansis (1)	underlog	adult
	Ityla chrysoscelis (1)	n snag	juv.
	(call)	, , , , , , , , , , , , , , , , , , , ,	heard 1-2
	Hyla squirella (2)	out on ground	juv.
	Anolis Casolinenses (1)	out on ground on stump	adult
1252			
	Rana utvi udaria (12)	at long pool	adults
C	100000000000000000000000000000000000000		

DATE 18 march 2002

SITE LA: W. Feliciana Par: Cat Island

PERSONNEL

CLIMATE

V / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1307		hardwood bottom	
	Hylacinerea (1) Arolis carolinensis (1)  " (1)	on tree	adult
	Anolis carolinensis (1)	on tree	4,
	h (1)	onlog	i)
	Hyla chrysoselis (call)	7	heard 1 at 2 times
	Hula squirella (2)	in snaa	iuv.
	Gastronhome Carolinensis (2)	under log	juv. adult
9	Rana utvicularia (2)	in snag under log at pool	
	Hyla chrysoselis (call) Hyla squirella (2) Castrophryne (arolinensis (2) Rana utvicularia (2) Rana chamitans (1)		h
1329	<u> </u>		pritty Cleany 87°
		A THE RESERVE AS A SECOND AS A	
			a -
	+		
	V20		
		**************************************	(1744) 19 20 19 19 19 19 19 19 19 19 19 19 19 19 19
	5.	V. Control Control Control	
		40.50 p. 100 500 p. 100 100 100 100 100 100 100 100 100 10	
	The second secon		
			X
			5)

#### 2002: 10 May: LA: West Feliciana Par: Cat Island National Wildlife Refuge

Hyla chrysoscelis (heard)
Hyla cinerea (heard)

Hyla squirella (heard)

2 Pseudacris feriarum

2 Pseudacris crucifer crucifer

3 Rana clamitans clamitans

12 Rana utricularia utricularia

2 Anolis carolinensis carolinensis Terrapene carolina major (shell)

3 Nerodia erythrogaster flavigaster

2 Nerodia fasciata confluens

1 Elaphe spiloides

It has remained dry, with no rain for a couple of weeks, although humidity is moderate to high, and cumulus clouds blow over from the south. Nighttime lows are in the low 70s, with highs nearly 90°F. Today was the same, with small clouds drifting over on occasion. The river was up and rising, so the access road was closed. I parked at the gate, where I heard 2 green and 2 squirrel tree frogs call from the borrow ditch along the road. On a wooden sign I saw a pair of anoles, the male cresting and green.

I started into the SE corner of George Woodside's forest portion at 0837 (air T 76°F). There were very few puddles, just some low damp spots. Near a puddle I found 2 metamorph chorus frogs. I heard 3 squirrel and 2 green treefrogs call. At 0908 it was 79°F. I heard one each of green and squirrel tree frogs, and found a shell of an adult box turtle. I reached the waterline as it encroached into the forest, and walked around in the shallows. The water was dark, but I saw a yellowbelly water snake pass through a sunned spot in about 14" of water. Along the waterline I saw 2 adult leopard frogs and a bronze frog. Under a log was another adult leopard frog.

At 0943 it was still 79°F. Continuing along the water line I saw 3 metamorph leopard frogs. I saw another metamorph leopard and a juv bronze frog away from water. I heard perhaps 5-8 green tree frogs calling from low vegetation at the edge of a flooded food plot. In the forest I heard a gray tree frog call, found an adult bronze frog under a log, and found a metamorph spring peeper on the ground. At 1006 (air T 80°F) I heard a green and gray tree frog call, and found a metamorph leopard frog under a log. Along a flooded food plot I caught a big female yellowbelly water snake, and I caught a male swimming off shore. The latter went under but I was able to corner it in a tiny inlet.

At 1031 (air T 82°F) I saw another metamorph peeper on the ground, an adult leopard frog under a log, and a metamorph leopard at a big puddle. I found an adult banded water snake lying out on the forest floor, and saw a very large one go in off a shrub overhanging a deep puddle. At 1055 I headed toward the sharp turn in the access road at the NE part of the property, which is slightly higher land. I saw 2 metamorph leopard frogs in a pool, heard a squirrel tree frog, and saw a rat snake about 32" long lying out. I walked over it and it headed towards a stump and down a hole in the base. At 1118 (clear, 82°) I continued paralleling the entrance road inside the forest in dry terrain. I heard 3 squirrel and 1 gray tree frog call. I came out of the woods at 1134.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	2.95	79	clear Hyla squirella	h	level 1	call ad
bottomland hardwoods	2.95	79	clear Hyla cinerea	h	level 2	call ad
bottomland hardwoods	2.95	79	clear Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	2.95	79	clear Pseudacris feriarum	2	0.68	VES nmet
bottomland hardwoods	2.95	79	clear Pseudacris crucifer	2	0.68	VES nmet
bottomland hardwoods	2.95	79	clear Rana utricularia	4	1.36	VES ad
bottomland hardwoods	2.95	79	clear Rana utricularia	8	2.71	VES nmet
bottomland hardwoods	2.95	79	clear Rana utricularia	12	4.07	VES combd
bottomland hardwoods	2.95	79	clear Rana clamitans	2	0.68	VES ad
bottomland hardwoods	2.95	79	clear Nerodia erythrogaster	3	1.02	VES ad
bottomland hardwoods	2.95	79	clear Nerodia fasciata	2	0:68	VES ad
bottomland hardwoods	2.95	79	clear Elaphe spiloides	1	0.34	VES ad
bottomland hardwoods	2.95	79	clear Rana clamitans	1	0.34	VES juv
bottomland hardwoods	2.95	79	clear Rana clamitans	3	1.02	VES combd

SITE LA: W. Peliciana Par: Cat Island N.W.R., G. Woodside property DATE 10 May 2002

PERSONNEL J. Boundy

CLIMATE no rain for 2 weeks or more; nighttime lows in low 70s, highs mear 90°; humid today; same; light breeze from south; humid; some cumulus drifting over.

	Taxon / Location	Activity / Microhabitat	Notes / Weather
2837	START	bottom hardwoods	clear ,76°.
	Hyla squiscla (heard)		3 calls
	Alya cherea (")		Zealls
	Hyla squiscla (heard) Hyla cinerea (") Pseudacris foriarum (2)	on ground nr. puddle	metumorphs.
0908			chean, 79°.
	Hyla squirella (heard)		1 call
	Hyla cirerea " Rana utricularia (1)		D
	Rana utricularia (1)	underlog	adrett
	" (2)	out nr. shoveline	ч
	Rang clamitans (1)	4	U
	Norodia erythrogaster(1)	u	4 9
0943			790
	Rana utvicularia (3)	at waterline	metamorphs
	4 (5)	out on ground	
	Hyla cinerca (heard)	J	numerous calling
	Hyla chrysoscelis "		1 call
	Rana Clamitens (1)	out on ground	
	· (i)	under 10 a	juv. adult
XI.	Pseudacris Crucker (1)	out onground  under log  out on ground	metamorph
1006			80°
	Hyla cinerea (heard)	delin de como de decembra de la como de la c	1 call
	Hyla cinerea (heard) Hyla chrysoscelis "		n
	Nerodia crythrogaster (2)	surinming in water	8, 9
	Nerodia crythrogastar (2) Rana utriculatia (1)	swimming in water	8, 9 metimorph
1031			82°
	Pseudacris cruciter (1)	out on ground	metamorph
	Rama utriularia (1)	under 109	adult
	Nerodia fusciata (1)	in shrub over water	82
	u (1)	out on ground	à <sub>0</sub>
	Rana utviularia (1)	out on ground at puddle	metamorph

0.292

DATE 10 May 2002

PERSONNEL

SITE LA: W. Feliciana Par: Cat Island N.W.R.

CLIMATE

V / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
1055			
	Rana utricularia (2)	at pool	metamorphs
	Elaphe spiloides (1)	out on ground	metamorphs adult
	Rana utricularia (2) Elaphe spiloides (1) Hyla squirella (heard)	J	1 cay
	( )		
1118			82°; clear 3 calls
	Hylasquirella (heare)		3 calls
	Hylasquirella (heare) Hylachrysoscelis "		call
1/34	END		
- N	NAME OF THE OWNER O		
		,	
	10-11-11-11-11-11-11-11-11-11-11-11-11-1		
	****	The state of the s	
	The state of the s		

### 2002: 9 July: LA: West Feliciana Par: Cat Island National Wildlife Refuge

2 Bufo fowleri
Hyla chrysoscelis (heard)
Hyla cinerea (heard)
1 Hyla squirella (+ heard)

2 Rana clamitans clamitans
10 Rana utricularia utricularia
1 Trachemys scripta elegans
1 Anolis carolinensis carolinensis

Lately the highs have been near 90°F, and the lows in the 70s. It has been very humid, with afternoon thundershowers most days. Today was the same, with few clouds by late morning. The river had been dropping, but the NWR gate was closed, so I walked into the Woodside property. On the way, in the channel along the road, I heard a few green tree frogs and 1 squirrel tree frog call.

I started at the NE corner at 0852 (air T 81°F), and headed SW. There were only a few puddles or tiny pools on the site. I saw 2 juvenile leopard frogs in low ground cover in low spots, and one metamorph Fowler's toad on the ground. I heard 3 squirrel tree frogs call, and up to 2-3 gray and green tree frogs calling simultaneously, but sporadically. From 0921 (air T 81°F) to 0953 I found an adult squirrel tree frog under bark on a snag, and heard up to 2-3 squirrel, gray and green tree frogs call at times. From 0954 (air T 82°F) to 1034 I saw two metamorph bronze frogs at a small puddle, an anole on a log, and heard a green and squirrel tree frog call. I also heard up to 2-3 gray tree frogs calling.

From 1035 (air T 82°F) to 1102 I heard a squirrel tree frog call, 2-3 gray tree frogs calling, an adult leopard frog under a log, and a redear turtle on a log in the slough along the entrance road. At 1103 (air T 83°F) I saw a leopard frog on a log, and saw 6 juv leopards in low areas near a pool. I saw a metamorph Fowler's toad on the ground, and heard 1 call each of gray, green and squirrel tree frogs. I ended back at the NE corner at 1155 (air T 86°F). On the walk back to the truck I saw a redear go off a log in the slough, and heard a squirrel tree frog call.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	2.18	82	clear Rana utricularia	2	0.92	VES juv
bottomland hardwoods	2,18	82	clear Rana utricularia	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear Rana utricularia	3	1.38	VES combd
bottomland hardwoods	2.18	82	clear Bufo fowleri	1	0.46	VES nmet
bottomland hardwoods	2.18	82	clear Hyla chrysoscelis	, h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear Hyla cinerea	h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear Hyla squirella	h	level 1.5	call ad
bottomland hardwoods	2.18	82	clear Hyla squirella	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear Rana clamitans	2	0.92	VES nmet
bottomland hardwoods	2.18	82	clear Anolis carolinensis	1	0.46	VES ad
bottomland hardwoods	2.18	82	clear Trachemys scripta	1	0.46	VES ad
bottomland hardwoods	0.87	85	part cloud Rana utricularia	1	1.15	VES ad
bottomland hardwoods	0.87	85	part cloud Rana utricularia	6	6.9	VES juv
bottomland hardwoods	0.87	85	part cloud Rana utricularia	7	8.05	VES combd
bottomland hardwoods	3.05	х	x Rana utricularia	10	11.49	VES combd
bottomland hardwoods	0.87	85	part cloud Bufo fowleri	1	1.15	VES nmet
bottomland hardwoods	3.05	х	x Bufo fowleri	2	2.3	VES combd
bottomland hardwoods	0.87	85	part cloud Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	0.87	85	part cloud Hyla cinerea	h	level 1	call ad
bottomland hardwoods	0.87	85	part cloud Hyla squirella	h	level 1	call ad

PERSONNEL J. Boundy

CLIMATE recent: very warm + humid, lows 70s, highes ~900. Afternoon showers most days.

today: same

N / Time	Taxon / Location	Activity / Microhabitat	Notes / Weather
0852	START	bottom hardwoods	clear, 81°
	Ranauticularia (2)	ort on ground	ive
	DVED CONTELL (1)	, 0	juv. motamorph 3 calls
	Hyla squirrela (call)		3 calls
	Hylachorea "		2-3 calls together
	Hyla chrysoscebis n		ι. 0
0921			@1°
	Aylasquirella (1)	ander bark on snag	adult 2-3 calling to gether
	y Calls)	11.50	2-3 colling to alter
	Hula cinerea "		<u> </u>
	Hylasquirella (1)  11 (calls)  Hyla cinerea 11  Hyla chnysoscelis L		/)
0954			82° mostly clear metamorphs adult
	Rana clamituns (2)	at middles	metamorphs
	Andlis carolinensix (1)	at puddles onlog	adutt
	Hyla chaysoscalis (call)	J	2-3 calling fogether
	Hyla cinerea is		2-3 calling together
	Hyla squivella "		, b
1035			82°
	Hyla squirella (Call)	:*:	l call
	Hyla chaysoscalis is		
	Rana uticularia (1)	under log	2-3 calling fogether adult
	Truehenrys scripta (1)	on log in shough	L <sub>2</sub>
1103			83° mostlyclean
	Rana utriularia (1)	on log	83° mostlyclear
	4 (6)	at puddles	jw.
	Buto Gouler (1)	out on yound	metamorph
	Buto Couler (1) Hyla shaysoscalls (call)	7	(Lal)
	Hylacinerea 4		"
	Hyla squirella "		h
<b>*</b> 1155	END		86°.

## 2002: 16 July: LA: West Feliciana Par: Cat Island National Wildlife Refuge

Hyla cinerea (heard)
Hyla chrysoscelis (heard)
Hyla squirella (heard)

1 Rana clamitans clamitans 7 Trachemys scripta elegans

The NWR gate was open, so I went to the section along Blackfork Bayou I had surveyed last fall. Lately the highs have been near 90°F, and the lows in the 70s. It has been very humid, with afternoon thundershowers most days. Today was the same, with few clouds by late morning. The Bayou was within its channel, and there was little other than some puddles over the rest of the area.

I started at the trailhead at 0843 (air T 77°F). I heard a green and a squirrel tree frog call. From 0908 I heard a 5 gray tree frogs call briefly at different times, and found a metamorph bronze frog under a log near the Bayou. From 0933 I counted 6 different gray tree frogs call. I ended back at the trailhead at 1009 (air T 83°F).

As I was driving out on the entrance road I saw 7 redears on logs in the slough.

Habitat	Hours	T-air	Weather Species	N	N/Hour	Method Stage
bottomland hardwoods	1.43	80	clear Hyla chrysoscelis	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Hyla cinerea	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Hyla squirella	h	level 1	call ad
bottomland hardwoods	1.43	80	clear Rana clamitans	1	0.7	VES juv

SITE LA: W. Feliciana Par: Cat Island NWR.

DATE 16 July 2002

PERSONNEL Joboundy

CLIMATE lately: humid, with afternoon showers almost everyday; lows 70's, highs ~900. foday: same

N / Ti	ime	Taxon / Location	Activity / Microhabitat	Notes / Weather
084	+3	Start	bottom hardwoods	770, clear
List of the List.		Hyla cinetea (call)		770, clear
		Hyla cinetea (cali) Hyla squivella "		h
090				
		Hyla chousoscelis (call)		5 total calls
		Ityla chaysoscelis (call) Raha clamitans (1)	under log	Juv
- 0			J	
09	33	Hyla chay soscebis (enll)		26 11. 12.
		Hyla chay soscers (EALL)		Calls total
100	09	END		clean 83°.
			D	
			7	
		**************************************		
	12			
		AT THE STATE OF TH		

167         20.9 overcast         Agkistrodon piscivorus         1         0.6 VES           0.68         2.2.2 clear         Anolis carolinensis         1         0.6 VES           1.67         2.09 overcast         Anolis carolinensis         3         1.8 VES           0.93         2.2 B overcast         Anolis carolinensis         3         1.32 VES           1.67         2.7 Dart-cloud         Anolis carolinensis         3         1.32 VES           0.94         2.7 Dart-cloud         Anolis carolinensis         3         1.32 VES           0.10         3.7 Dart-cloud         Anolis carolinensis         3         1.32 VES           1.07         2.7 Dart-cloud         Anolis carolinensis         3         1.32 VES           1.08         2.2 Clear         Bulo foweri         1         0.46 VES           1.07         2.7 Dart-cloud         Bulo foweri         1         1.47 VES           1.68         2.2 Clear	Habitat		T-air	Weather	Species	z	N/Hour	Method	Stage	Мо	Day	Year	
0.68         2.2 clear         Anolis carolinensis         1         1.47 VES           1.67         20.9 overcast         Anolis carolinensis         5         3 VES           1.67         20.9 overcast         Anolis carolinensis         3         1.8 VES           1.68         2.2.8 overcast         Anolis carolinensis         3         3.23 VES           1.65         27.2 part-cloud         Anolis carolinensis         3         3.33 VES           2.18         27.2 part-cloud         Anolis carolinensis         3         3.33 VES           2.18         27.2 part-cloud         Anolis carolinensis         3         3.34 VES           1.07         27.2 overcast         Bulfo fowleri         1         0.46 VES           1.07         27.2 overcast         Bulfo fowleri         1         0.45 VES           1.07         27.2 overcast         Bulfo fowleri         1         0.46 VES           1.65         x         x         4         2.42 VES           1.68         2.2. clear         Bulfo fowleri         1         0.46 VES           1.68         2.2. dear         Bulfo fowleri         1         0.45 VES           1.68         2.2. dear         Bulfo fowleri         1	bottomland hardwoods	1.67	20.9	overcast	Agkistrodon piscivorus			VES	juvenile	2	19	2002	
167         20.9 overcast         Anolis carolinensis         5         3 VES           1.67         20.9 overcast         Anolis carolinensis         3         1.8 VES           1.67         20.9 overcast         Anolis carolinensis         3         1.8 VES           0.93         22.8 overcast         Anolis carolinensis         3         3.23 VES           1.65         27.2 part-cloud         Anolis carolinensis         3         3.33 VES           0.99         30         part-cloud         Anolis carolinensis         3         3.33 VES           0.98         27.2 lovercast         Bulfo fowleri         1         0.46 VES           1.07         27.2 overcast         Bulfo fowleri         1         0.41 VES           1.55 x         2.8 clear         Bulfo fowleri         1         0.45 VES           1.07         27.2 overcast         Bulfo fowleri         1         1.47 VES           2.18         2.2 clear         Bulfo fowleri<	bottomland hardwoods	0.68	22.2	clear	Anolis carolinensis		1.47	VES	juvenile	12	4	2001	
167         20.9 overcast         Anolis carolinensis         3         1.8 VES           167         20.9 overcast         Anolis carolinensis         8         4.8 VES           165         27.2 overcast         Anolis carolinensis         3         3.23 VES           165         27.2 part-cloud         Anolis carolinensis         3         3.33 VES           2.18         27.8 clear         Anolis carolinensis         3         3.33 VES           1.07         27.2 part-cloud         Anolis carolinensis         3         3.33 VES           1.07         27.2 lovercast         Bufo fowleri         1         0.46 VES           1.07         27.2 lovercast         Bufo fowleri         1         4         3.74 VES           1.08         22.2 clear         Bufo fowleri         1         0.46 VES           1.08         27.2 part-cloud         Bufo fowleri         1         1.47 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.46 VES           1.67         27.2 part-cloud         Eumeces fasciatus         1         0.41 VES           1.67         27.2 part-cloud         Eumeces fasciatus         1         0.41 VES           1.67         27.2 part-cl	bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis			VES	adult	2	19	2002	
1.67         20.9 overcast         Anolis carolinensis         8         4.8   VES           0.93         22.8 overcast         Anolis carolinensis         3         3.23   VES           0.93         22.8 overcast         Anolis carolinensis         3         3.23   VES           0.94         27.2 part-cloud         Anolis carolinensis         3         3.23   VES           0.98         22.7 clear         Bufo fowleri         1         0.46   VES           1.07         27.2 overcast         Bufo fowleri         1         0.53   VES           1.07         27.2 overcast         Bufo fowleri         1         0.53   VES           1.07         27.2 overcast         Bufo fowleri         1         0.53   VES           1.68         2.2.2 clear         Bufo fowleri         1         0.53   VES           2.18         27.8 clear         Bufo fowleri         1         0.53   VES           2.18         27.9 part-cloud         Eumeces fasciatus         1         0.41   VES           1.67         27.2 part-cloud         Eumeces fasciatus         1         0.41   VES           1.67         27.2 part-cloud         Eumeces fasciatus         1         0.41   VES           1.67         27.2 part-cloud	bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis			VES	juvenile	2	19	2002	
0.93         2.2.b lovercast         Anolis carolinensis         3         3.23 VES           1.66         27.2 part-cloud         Anolis carolinensis         3         1.82 VES           0.9         30 part-cloud         Anolis carolinensis         3         3.33 VES           0.48         26.7 clear         Bufo fowleri         1         0.46 VES           1.07         27.2 lovercast         Bufo fowleri         4         3.74 VES           1.07         27.2 lovercast         Bufo fowleri         7         4.52 VES           1.08         2.2.2 clear         Bufo fowleri         1         0.55 VES           0.87         2.2.4 part-cloud         Bufo fowleri         1         0.46 VES           2.18         2.7.8 clear         Bufo fowleri         1         0.45 VES           2.18         2.0.3 clear         Bufo fowleri         1         0.55 VES           2.18         2.0.3 clear         Bufo fowleri         1         0.55 VES           2.18         2.0.3 clear         Bufo fowleri         1         0.55 VES           2.18         2.2.2 clear         Bufo fowleri         1         0.55 VES           2.18         2.2.2 clear         Bufo fowleri         1 <t< td=""><td>bottomland hardwoods</td><td>1.67</td><td>20.9</td><td>overcast</td><td>Anolis carolinensis</td><td></td><td></td><td>VES</td><td>combined</td><td>2</td><td>19</td><td>2002</td><td></td></t<>	bottomland hardwoods	1.67	20.9	overcast	Anolis carolinensis			VES	combined	2	19	2002	
1.65         27.2 part-cloud         Anolis carolinensis         3         1.82 VES           0.9         30 part-cloud         Anolis carolinensis         1         0.46 VES           0.48         2.7.8 clear         Anolis carolinensis         1         0.46 VES           0.48         2.6.7 clear         Bufo fowleri         2         4.17 VES           1.07         27.2 overcast         Bufo fowleri         4         4.52 VES           1.65 x         20.3 clear         Bufo fowleri         1         0.65 VES           0.68         22.2 clear         Bufo fowleri         1         0.46 VES           0.87         2.94 part-cloud         Bufo fowleri         1         1.47 VES           1.67         27.2 clear         Bufo fowleri         1         1.47 VES           1.67         2.0 overcast         Eumeces fasciatus         1         0.41 VES           1.67         2.0 overcast         Eumeces fasciatus         1         0.61 VES           1.67         2.0 overcast         Gastrophryne carolinensis         1         0.61 VES           1.68         2.7.2 part-cloud         Gastrophryne carolinensis         2         2.15 VES           0.93         2.28 lovercast         Gastrophr	bottomland hardwoods	0.93	22.8	overcast	Anolis carolinensis			VES	adult	2	19	2002	
0.9         30 part-cloud         Anolis carolinensis         3         3.33 VES           2.18         27.8 clear         Anolis carolinensis         1         0.46 VES           0.48         26.7 clear         Bufo fowleri         2         4.17 VES           1.07         27.2 lovercast         Bufo fowleri         4         3.74 VES           1.55         x         Bufo fowleri         7         4.52 VES           0.68         22.2 clear         Bufo fowleri         1         0.45 VES           0.68         22.2 clear         Bufo fowleri         1         1.47 VES           2.18         27.8 clear         Bufo fowleri         1         0.45 VES           0.87         29.4 part-cloud         Bufo fowleri         1         1.47 VES           1.67         20.9 overcast         Elaphe splidides         1         0.41 VES           1.67         2.0 overcast         Elaphe splidides         1         0.61 VES           1.67         2.0 overcast         Gastrophyroe carolinensis         1         0.61 VES           1.68         2.7.2 part-cloud         Gastrophyroe carolinensis         2         1.2 VES           0.93         2.2.8 overcast         Gastrophyroe carolinensis	bottomland hardwoods	1.65	27.2	part-cloud	Anolis carolinensis			VES	adult	6	18	2002	
2.18         27.8 clear         Anolis carolinensis         1         0.46 VES           0.048         26.7 clear         Bufo fowleri         2         4.17 VES           1.07         27.2 overcast         Bufo fowleri         1         0.93 VES           1.07         27.2 overcast         Bufo fowleri         1         0.55 VES           1.55 x         x         Bufo fowleri         1         0.55 VES           1.58 x         x         Bufo fowleri         1         1.47 VES           0.68 22.2 clear         Bufo fowleri         1         1.47 VES           0.87 22.9 part-cloud         Bufo fowleri         1         1.47 VES           1.65 27.2 part-cloud         Elaphe sploides         1         0.46 VES           1.65 27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65 27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65 27.2 part-cloud         Eumeces fasciatus         0.61 VES           1.67 20.9 overcast         Gastrophryne carolinensis         1         0.61 VES           1.67 20.9 overcast         Gastrophryne carolinensis         1         0.61 VES           1.67 20.9 overcast         Gastrophryne carolinensis         2	bottomland hardwoods	0.9	30	part-cloud	Anolis carolinensis			VES	adult	60	18	2002	
0.48         26.7 clear         Bufo fowleri         2         4.17 VES           1.07         27.2 overcast         Bufo fowleri         1         0.93 VES           1.07         27.2 overcast         Bufo fowleri         4         3.74 VES           1.55 x         x         Bufo fowleri         7         4.52 VES           1.65 x         x         Bufo fowleri         1         0.55 VES           0.68 22.2 clear         Bufo fowleri         1         1.47 VES           0.87 29.4 part-cloud         Bufo fowleri         1         1.47 VES           0.87 20.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65 27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65 27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.67 20.9 overcast         Gastrophryne carolinensis         1         0.61 VES           1.67 27.2 part-cloud         Eumeces fasciatus         0.051 VES           0.93 22.8 overcast         Gastrophryne carolinensis         1         0.61 VES           0.52 28 6 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.53 22.8 overcast         Gastrophryne carolinensis         2	bottomland hardwoods	2.18	27.8	clear	Anolis carolinensis			VES	adult	7	o	2002	10
1.07         27.2 overcast         Bufo fowleri         1         0.93 VES           1.07         27.2 overcast         Bufo fowleri         4         3.74 VES           1.55 x         x         Bufo fowleri         7         4.52 VES           1.82         20.3 clear         Bufo fowleri         1         0.65 VES           0.68         22.2 clear         Bufo fowleri         1         1.47 VES           0.81         27.2 clear         Bufo fowleri         1         1.47 VES           0.87         27.2 clear         Bufo fowleri         1         1.47 VES           0.87         27.2 part-cloud         Elaphe splioides         1         1.15 VES           1.67         20.9 overcast         Elaphe splioides         1         0.41 VES           1.67         20.2 overcast         Castrophyme carolinensis         1         0.61 VES           1.67         20.2 overcast         Castrophyme carolinensis         2         1.2 VES           1.67         20.2 overcast         Castrophyme carolinensis         3         3.33 VES           1.68         27.2 part-cloud         Castrophyme carolinensis         3         3.33 VES           0.52         28.6 clear         Hyla chrysoscelis	bottomland hardwoods	0.48	26.7	clear	Bufo fowleri			VES	juvenile	6	12	2001	
1.07         27.2 lovercast         Bufo fowleri         4         3.74 VES           1.55 x         x         Bufo fowleri         7         4.52 VES         VES           1.82         20.3 clear         Bufo fowleri         1         0.55 VES         VES           0.68         22.2 clear         Bufo fowleri         1         0.46 VES         VES           0.08         22.2 clear         Bufo fowleri         1         0.46 VES         VES           0.87         2.94 part-cloud         Bufo fowleri         1         0.46 VES         VES           1.67         2.09 overcast         Elaphe spiloides         1         0.41 VES         VES           1.67         2.0.2 part-cloud         Eumeces fasciatus         1         0.61 VES         VES           1.67         2.7.2 part-cloud         Eumeces laticeps         1         0.61 VES         VES           1.67         2.7.2 part-cloud         Gastrophyme carolinensis         1         0.61 VES           0.93         2.2.8 lovercast         Gastrophyme carolinensis         1         0.61 VES           0.83         2.2.8 lorer         Hyla chrysoscelis         x         level 1         call           0.84         2.7.2 part-cl	bottomland hardwoods	1.07	27.2	overcast	Bufo fowleri			VES	metamorph	6	12	2001	
1.55 x         x         Bufo fowleri         7         4.52 VES         VES           1.82         20.3 clear         Bufo fowleri         1         0.55 VES         VES           2.18         2.2.2 clear         Bufo fowleri         1         1.47 VES         VES           2.18         2.7.8 clear         Bufo fowleri         1         0.46 VES         VES           0.87         2.9.4 part-cloud         Bufo fowleri         1         0.41 VES         VES           1.67         2.0.9 overcast         Elaphe spiloides         1         0.41 VES         VES           1.65         2.7.2 part-cloud         Eumeces fasciatus         1         0.61 VES         VES           1.65         2.7.2 part-cloud         Eumeces fasciatus         1         0.61 VES         VES           1.65         2.7.2 part-cloud         Eumeces fasciatus         1         0.61 VES         VES           1.65         2.7.2 part-cloud         Eustrophyme carolinensis         1         0.61 VES           0.93         2.2.8 overcast         Gastrophyme carolinensis         1         1.62 VES           0.52         2.8.6 part-cloud         Gastrophyme carolinensis         3         3.33 VES           0.83	bottomland hardwoods	1.07	27.2	overcast	Bufo fowleri			VES	juvenile	6	12	2001	
1.82         20.3 clear         Bufo fowleri         1         0.55 VES           2.18         22.2 clear         Bufo fowleri         1         1.47 VES           2.18         27.8 clear         Bufo fowleri         1         1.47 VES           0.87         29.4 part-cloud         Bufo fowleri         1         0.46 VES           1.67         20.9 overcast         Elaphe spiloides         1         0.41 VES           1.67         20.9 overcast         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.07         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.07         27.2 part-cloud         Gastrophyme carolinensis         1         0.61 VES           1.07         27.2 part-cloud         Gastrophyme carolinensis         2         2.15 VES           0.93         22.8 part-cloud         Gastrophyme carolinensis         3         3.33 VES           0.93         22.8 part-cloud         Gastrophyme carolinensis         x         level 1         call           0.93         22.8 clear         Hyla chrysoscelis         x         level 1         call	bottomland hardwoods	1.55	×	×	Bufo fowleri			VES	combined	6	12	2001	
0.68         22.2 clear         Bufo fowleri         1         1.47 VES           2.18         27.8 clear         Bufo fowleri         1         0.46 VES           0.87         29.4 part-cloud         Bufo fowleri         1         1.15 VES           2.43         27 clear         Elaphe spiloides         1         0.41 VES           1.67         20.9 overcast         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.07         27.2 overcast         Gastrophryne carolinensis         2         1.2 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         1.2 VES           1.65         27.2 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.93         22.8 overcast         Gastrophryne carolinensis         1         1.02 VES           0.65         27.2 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.93         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.65 <td>bottomland hardwoods</td> <td>1.82</td> <td>20.3</td> <td>clear</td> <td>Bufo fowleri</td> <td></td> <td></td> <td>VES</td> <td>juvenile</td> <td>10</td> <td>26</td> <td>2001</td> <td></td>	bottomland hardwoods	1.82	20.3	clear	Bufo fowleri			VES	juvenile	10	26	2001	
2.18         27.8 clear         Bufo fowleri         1         0.46 VES           0.87         29.4 part-cloud         Bufo fowleri         1         1.15 VES           2.43         27 clear         Elaphe spiloides         1         0.41 VES           1.67         20.9 overcast         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces faticeps         1         0.61 VES           1.67         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.07         27.2 part-cloud         Gastrophryne carolinensis         2         1.2 VES           1.67         27.2 part-cloud         Gastrophryne carolinensis         2         2.15 VES           1.65         27.2 part-cloud         Gastrophryne carolinensis         2         2.15 VES           0.93         22.8 overcast         Gastrophryne carolinensis         3         3.33 VES           0.95         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call <td>bottomland hardwoods</td> <td>0.68</td> <td>22.2</td> <td>clear</td> <td>Bufo fowleri</td> <td></td> <td></td> <td>VES</td> <td>juvenile</td> <td>12</td> <td>4</td> <td>2001</td> <td></td>	bottomland hardwoods	0.68	22.2	clear	Bufo fowleri			VES	juvenile	12	4	2001	
0.87         29.4 part-cloud         Bufo fowleri         1         1.15 VES           2.43         27 clear         Elaphe spiloides         1         0.41 VES           1.67         20.9 overcast         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces faticeps         1         0.61 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         1.2 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         2.15 VES           0.93         22.8 overcast         Gastrophryne carolinensis         2         2.15 VES           0.65         28.6 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.93         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.65         28.6 part-cloud         Hyla chrysoscelis         x         leve	bottomland hardwoods	2.18	27.8	clear	Bufo fowleri			VES	metamorph	7	6	2002	
2.43         27 clear         Elaphe spiloides         1         0.41 VES           1.67         20.9 overcast         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.65         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.07         27.2 overcast         Gastrophryne carolinensis         2         1.2 VES           0.93         22.8 overcast         Gastrophryne carolinensis         2         1.2 VES           0.93         22.8 overcast         Gastrophryne carolinensis         1         0.61 VES           0.05         28.6 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.05         28.6 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.08         27.2 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.63         22.8 overcast         Hyla chrysoscelis         x         lev	bottomland hardwoods	0.87	29.4	part-clond	Bufo fowleri			VES	metamorph	7	თ	2002	
1.67         20.9 overcast         Eumeces fasciatus         1         0.6 VES           1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.07         27.2 part-cloud         Gastrophryne carolinensis         2         1.2 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         2.15 VES           0.93         22.8 overcast         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.03         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.043         22.8 clear         Hyla chrysoscelis         x         level 1         call           0.052         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.053         22.8 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9 3         20 part-cloud         Hyla	bottomland hardwoods	2.43			Elaphe spiloides			VES	adult	5	10	2002	
1.65         27.2 part-cloud         Eumeces fasciatus         1         0.61 VES           1.65         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.07         27.2 overcast         Gastrophryne carolinensis         2         1.2 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         2.15 VES           0.93         22.8 overcast         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.93         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.03         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.05         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.05         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.05         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud <td>bottomland hardwoods</td> <td>1.67</td> <td>20.9</td> <td>overcast</td> <td>Eumeces fasciatus</td> <td></td> <td></td> <td>VES</td> <td>juvenile</td> <td>2</td> <td>19</td> <td>2002</td> <td></td>	bottomland hardwoods	1.67	20.9	overcast	Eumeces fasciatus			VES	juvenile	2	19	2002	
1.65         27.2 part-cloud         Eumeces laticeps         1         0.61 VES           1.07         27.2 overcast         Gastrophryne carolinensis         1         0.93 VES           0.93         22.8 overcast         Gastrophryne carolinensis         2         1.2 VES           1.65         27.2 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         1         1.92 VES           0.9         30 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.93         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.93         30 part-cloud </td <td>bottomland hardwoods</td> <td>1.65</td> <td>27.2</td> <td>part-cloud</td> <td>Eumeces fasciatus</td> <td></td> <td></td> <td>VES</td> <td>adult</td> <td>က</td> <td>18</td> <td>2002</td> <td></td>	bottomland hardwoods	1.65	27.2	part-cloud	Eumeces fasciatus			VES	adult	က	18	2002	
1.07         27.2 overcast         Gastrophryne carolinensis         1         0.93 VES           1.67         20.9 overcast         Gastrophryne carolinensis         2         1.2 VES           1.63         22.8 overcast         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         1         1.92 VES           0.9         30 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43	bottomland hardwoods	1.65	27.2	part-cloud	Eumeces laticeps			VES	adult	က	18	2002	
1.67         20.9 overcast         Gastrophryne carolinensis         2         1.2 VES           0.93         22.8 overcast         Gastrophryne carolinensis         1         0.51 VES           1.65         27.2 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.9         30 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.93         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.43	bottomland hardwoods	1.07	27.2	overcast	Gastrophryne carolinensis			VES	adult	6	12	2001	
0.93         22.8 overcast         Gastrophryne carolinensis         2         2.15 VES           1.65         27.2 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.93         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.48         27.8 clear         Hyla chrysoscelis         x         level 1         call	bottomland hardwoods	1.67	20.9	overcast	Gastrophryne carolinensis			VES	juvenile	2	19	2002	
1.65         27.2 part-cloud         Gastrophryne carolinensis         1         0.61 VES           0.52         28.6 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.9         30 part-cloud         Gastrophryne carolinensis         x         level 1         2.133 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call	bottomland hardwoods	0.93	22.8	overcast	Gastrophryne carolinensis			VES	juvenile	2	19	2002	
0.52         28.6 part-cloud         Gastrophryne carolinensis         1         1.92 VES           0.9         30 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.28         27.20 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call	bottomland hardwoods	1.65	27.2	part-cloud	Gastrophryne carolinensis			VES	juvenile	е	18	2002	
0.9         30 part-cloud         Gastrophryne carolinensis         3         3.33 VES           0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.28         27.8 clear         Hyla chrysoscelis         x         level 1         call	bottomland hardwoods	0.52	28.6	part-cloud	Gastrophryne carolinensis			VES	juvenile	n	18	2002	
0.83         25.8 clear         Hyla chrysoscelis         x         level 1         call           0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5 call	bottomland hardwoods	6.0	30	part-cloud	Gastrophryne carolinensis			VES	adult	က	18	2002	
0.75         27.8 clear         Hyla chrysoscelis         x         level 1         call           0.93         22.8 overcast         Hyla chrysoscelis         x         level 1         call           1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	0.83	25.8	clear	Hyla chrysoscelis	×	level 1	call	adult	7	16	2002	
0.93         22.8 overcast         Hyla chrysoscelis         1         1.08 VES           1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5 call	bottomland hardwoods	0.75	27.8	clear	Hyla chrysoscelis	×	level 1	call	adult	7	16	2002	
1.65         27.2 part-cloud         Hyla chrysoscelis         x         level 1         call           0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	0.93	22.8	overcast	Hyla chrysoscelis		1.08	VES	juvenile	2	19	2002	
0.52         28.6 part-cloud         Hyla chrysoscelis         x         level 1         call           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	1.65	27.2	part-clond	Hyla chrysoscelis	×	level 1	call	adult	9	18	2002	
0.9         30 part-cloud         Hyla chrysoscelis         1         1.11 VES           0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	0.52	28.6	part-cloud	Hyla chrysoscelis	×	level 1	call	adult	က	18	2002	
0.9         30 part-cloud         Hyla chrysoscelis         x         level 1         call           2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	6.0	30	part-cloud	Hyla chrysoscelis		1.11	VES	juvenile	9	18	2002	
2.43         27 clear         Hyla chrysoscelis         x         level 1         call           2.18         27.8 clear         Hyla chrysoscelis         x         level 1.5         call	bottomland hardwoods	0.9	30	part-cloud	Hyla chrysoscelis	×	level 1	cail	adult	က	18	2002	
2.18 27.8 clear Hyla chrysoscelis x level 1.5 call	bottomland hardwoods	2.43	27	clear	Hyla chrysoscelis	×	level 1	call	adult	2	5	2002	
	bottomland hardwoods	2.18	27.8	clear	Hyla chrysoscelis	×	level 1.5	call	adult	7	6	2002	

Habitat		T-air	Weather	Species	z	N/Hour	Method	Stage	Mo	Day	Year	
bottomland hardwoods	0.87	29.4	part-cloud	Hyla chrysoscelis	×	level 1	call	adult	7	တ	2002	
bottomland hardwoods	1.2	18.6	clear	Hyla cinerea		1 0.83	0.83 VES	adult	10	56	2001	
bottomland hardwoods	1.23	20.9	clear	Hyla cinerea		1 0.81	0.81 VES	adult	12	4	2001	
bottomland hardwoods	0.68	22.2	clear	Hyla cinerea		1 1.47	1.47 VES	adult	12	4	2001	
bottomland hardwoods		×	clear	Hyla cinerea		2 0.65	0.65 VES	combined	12	4	2001	
bottomland hardwoods	1.58	20.3	20.3 part-cloud	Hyla cinerea		1 0.63	0.63 VES	adult	-	17	2002	
bottomland hardwoods	0.83	25.8	25.8 clear	Hyla cinerea	×	level 1	call	adult	7	16	2002	
bottomland hardwoods	1.67	20.9	20.9 overcast	Hyla cinerea		5	VES	adult	2	19	2002	
bottomland hardwoods	6.0	30	part-clond	Hyla cinerea		1.11	1.11 VES	adult	6	18	2002	
bottomland hardwoods	0.52	25.3	25.3 clear	Hyla cinerea	×	level 1	call	adult	5	10	2002	
bottomland hardwoods	2.43	27	clear	Hyla cinerea	×	level 2	call	adult	5	10	2002	
bottomland hardwoods	2.18	27.8	27.8 clear	Hyla cinerea	×	level 1.5	call	adult	7	6	2002	
bottomland hardwoods	0.87	29.4	29.4 part-cloud	Hyla cinerea	×	level 1	call	adult	7	6	2002	
bottomland hardwoods	0.68	22.2	22.2 clear	Hyla squirella		1.47	.47 VES	juvenile	12	4	2001	
bottomland hardwoods	0.83	25.8	25.8 clear	Hyla squirella	×	level 1	call	adult	7	16	2002	
bottomland hardwoods	1.67	20.9	20.9 overcast	Hyla squirella		7 4.2	4.2 VES	juvenile	2	19	2002	
bottomland hardwoods	1.67	20.9	20.9 overcast	Hyla squirella		2 1.2	1.2 VES	adult	2	19	2002	
bottomland hardwoods	1.67	20.9	20.9 overcast	Hyla squirella		9 5.4	5.4 VES	combined	2	19	2002	
bottomland hardwoods	0.93	22.8	22.8 overcast	Hyla squirella		1.08	1.08 VES	juvenile	2	19	2002	
bottomland hardwoods	0.93	22.8	22.8 overcast	Hyla squirella		1.08	1.08 VES	adult	2	19	2002	
bottomland hardwoods	0.93	22.8	22.8 overcast	Hyla squirella		2 2.15	2.15 VES	combined	2	19	2002	
bottomland hardwoods	1.65	27.2	27.2 part-cloud	Hyla squirella		1 0.61	0.61 VES	adult	က	18	2002	
bottomland hardwoods	0.9	30	30 part-cloud	Hyla squirella		4.44	4.44 VES	juvenile	8	18	2002	
bottomland hardwoods	0.52	25.3	25.3 clear	Hyla squirella	×	level 1	call	adult	2	10	2002	
bottomland hardwoods	2.43	27	27 clear	Hyla squirella	×	level 1	call	adult	5	5	2002	
bottomland hardwoods	2.18	27.8	27.8 clear	Hyla squirella	×	level 1.5	call	adult	7	6	2002	
bottomland hardwoods	2.18	27.8	27.8 clear	Hyla squirella		0.46	0.46 VES	adult	2	თ	2002	
bottomland hardwoods	0.87	29.4	29.4 part-cloud	Hyla squirella	×	level 1	call	adult	7	6	2002	
bottomland hardwoods	0.48	26.7	26.7 clear	Nerodia erythrogaster		2.08	2.08 VES	neonate	6	12	2001	
bottomland hardwoods	1.07	27.2	27.2 overcast	Nerodia erythrogaster	•	1 0.93	0.93 VES	neonate	6	12	2001	
bottomland hardwoods	1.55 x		×	Nerodia erythrogaster		1.29	1.29 VES	combined	6	12	2001	
bottomland hardwoods	2.43	27	27 clear	Nerodia erythrogaster		3 1.23	1.23 VES	adult	5	10	2002	
bottomland hardwoods	1.07	27.2	27.2 overcast	Nerodia fasciata		0.93	0.93 VES	neonate	6	12	2001	
bottomland hardwoods	1.82	20.3	20.3 clear	Nerodia fasciata	.,	2 1.1	1.1 VES	juvenile	10	56	2001	
bottomland hardwoods	1.58	20.3	20.3 part-cloud	Nerodia fasciata		1 0.63	0.63 VES	juvenile	1	17	2002	
bottomland hardwoods	2.43	27	27 clear	Nerodia fasciata	.,	2 0.82	0.82 VES	adult	S	10	2002	

		EP .	Weather	Species	z	N/Hour	Method	Stage	οW	Day	Year	
bottomland hardwoods	1.23	20.9	20.9 clear	Pseudacris crucifer	×	level 1	call	adult	12	4	2001	
bottomland hardwoods	1.67	20.9	20.9 overcast	Pseudacris crucifer	-		0.6 VES	adult	2	19	2002	
bottomland hardwoods	2.43	27	clear	Pseudacris crucifer	.,	2 0.82	0.82 VES	metamorph	വ	10	2002	
bottomland hardwoods	1.23	20.9	20.9 clear	Pseudacris feriarum	_		0.81 VES	adult	12	4	2001	
bottomland hardwoods	1.67	20.9	20.9 overcast	Pseudacris feriarum		9.0	0.6 VES	adult	2	19	2002	
bottomland hardwoods	0.93	22.8	22.8 overcast	Pseudacris feriarum	×	level 1.5	call	adult	2	19	2002	
bottomland hardwoods	0.52	25.3	25.3 clear	Pseudacris feriarum	2		3.85 VES	metamorph	2	10	2002	
bottomland hardwoods	1.07	27.2	27.2 overcast	Rana clamitans	_		0.93 VES	juvenile	6	12	2001	
bottomland hardwoods	1.2	18.6	18.6 clear	Rana clamitans	4		3.33 VES	juvenile	10	26	2001	
bottomland hardwoods	1.82	20.3	20.3 clear	Rana clamitans		0.55	0.55 VES	juvenile	10	26	2001	
bottomland hardwoods	1.82	20.3	20.3 clear	Rana clamitans		0.55	0.55 VES	adult	10	26	2001	
bottomland hardwoods	2.02	×	clear	Rana clamitans	6		1.49 VES	combined	10	26	2001	
bottomland hardwoods	1.23	20.9	20.9 clear	Rana clamitans	8		2.44 VES	adult	12	4	2001	
bottomland hardwoods	1.23	20.9	20.9 clear	Rana clamitans		0.81	0.81 VES	juvenile	12	4	2001	
bottomland hardwoods	0.68	22.2	22.2 clear	Rana clamitans	_	1.47	1.47 VES	adult	12	4	2001	
bottomland hardwoods	3.1	×	clear	Rana clamitans	5		1.61 VES	combined	12	4	2001	
bottomland hardwoods	0.83	25.8	25.8 clear	Rana clamitans	-		1.2 VES	juvenile	7	16	2002	
bottomland hardwoods	1.67	20.9	20.9 overcast	Rana clamitans	6		1.8 VES	adult	2	19	2002	
bottomland hardwoods	6.0	30	30 part-cloud	Rana clamitans	2		2.22 VES	adult	8	18	2002	
bottomland hardwoods	2.43	27	27 clear	Rana clamitans	2		0.82 VES	adult	2	10	2002	
bottomland hardwoods	2.43	27	27 clear	Rana clamitans	1		0.41 VES	juvenile	ഹ	10	2002	
bottomland hardwoods	2.43	27	27 clear	Rana clamitans	8		1.23 VES	combined	သ	10	2002	
bottomland hardwoods	2.18	27.8	27.8 clear	Rana clamitans	2		0.92 VES	metamorph	7	6	2002	
bottomland hardwoods	0.48	26.7	26.7 clear	Rana utricularia	-		2.08 VES	juvenile	0	12	2001	
bottomland hardwoods	1.07	27.2	27.2 overcast	Rana utricularia	_		0.93 VES	adult	6	12	2001	
bottomland hardwoods	1.07	27.2	27.2 overcast	Rana utricularia	2		1.87 VES	juvenile	o	12	2001	
bottomland hardwoods	1.55 x	Ĵ	×	Rana utricularia	9		1.94 VES	combined	თ	12	2001	
bottomland hardwoods	1.2	18.6	18.6 clear	Rana utricularia	-	0.83	VES	adult	10	56	2001	
bottomland hardwoods	1.82	20.3 clear	clear	Rana utricularia	_		0.55 VES	juvenile	10	26	2001	
bottomland hardwoods	1.82	20.3	20.3 clear	Rana utricularia	-	0.55	0.55 VES	adult	10	56	2001	
bottomland hardwoods	2.02 ×		clear	Rana utricularia	ю		1.49 VES	combined	10	56	2001	
bottomland hardwoods	0.57	19.1 clear	clear	Rana utricularia	,	1.75	1.75 VES	juvenile	12	4	2001	
bottomland hardwoods	1.23	20.9 clear	clear	Rana utricularia	7	5.69 VES	VES	adult	12	4	2001	
bottomland hardwoods	0.68	22.2 clear	clear	Rana utricularia	2	2.94 VES	VES	adult	12	4	2001	
bottomland hardwoods	3.1 ×		clear	Rana utricularia	10	3.22 VES	VES	combined	12	4	2001	
bottomland hardwoods	1.58	20.3	20.3 part-cloud	Rana utricularia	•	0.63 VES	VES	adult	-	17	2002	

Habitat	Hours T-air	- 1	Weather	Species	z	N/Hour	Method	Stage	ω	Day Year	Year
bottomland hardwoods	1.67	20.9	20.9 overcast	Rana utricularia	2		1.2 VES	adult	2	19	2002
bottomland hardwoods	1.65	27.2	27.2 part-cloud	Rana utricularia	co.		3.03 VES	adult	6	18	2002
bottomland hardwoods	0.52	28.6	28.6 part-cloud	Rana utricularia	9		11.54 VES	adult	3	18	2002
bottomland hardwoods	0.52	28.6	28.6 part-cloud	Rana utricularia	_	1.92	1.92 VES	juvenile	6	18	2002
bottomland hardwoods	0.52	28.6	28.6 part-cloud	Rana utricularia	7	·	13.46 VES	combined	m	8	2002
bottomland hardwoods	6.0	30	30 part-cloud	Rana utricularia	14		15.56 VES	adult	6	18	2002
bottomland hardwoods	2.43	27	27 clear	Rana utricularia	4		1.65 VES	adult	2	5	2002
bottomland hardwoods	2.43	27	27 clear	Rana utricularia	8		3.29 VES	metamorph	c	10	2002
bottomland hardwoods	2.43	27	27 clear	Rana utricularia	12		4.94 VES	combined	2	9	2002
bottomland hardwoods	2.18	27.8	27.8 clear	Rana utricularia	2		0.92 VES	juvenile	_	o	2002
bottomland hardwoods	2.18	27.8	27.8 clear	Rana utricularia	-	0.46	0.46 VES	adult	7	6	2002
bottomland hardwoods	2.18	27.8	27.8 clear	Rana utricularia	8		1.38 VES	combined	7	5	2002
bottomland hardwoods	0.87	29.4	29.4 part-cloud	Rana utricularia		1.15	1.15 VES	adult	7	σ	2002
bottomland hardwoods	0.87	29.4	29.4 part-cloud	Rana utricularia	9		6.9 VES	juvenile	7	o	2002
bottomland hardwoods	0.87	29.4	29.4 part-cloud	Rana utricularia	7	8.05	8.05 VES	combined	7	o	2002
bottomland hardwoods	1.65	27.2	27.2 part-cloud	Terrapene carolina	-	0.61	0.61 VES	adult	m	18	2002
bottomland hardwoods	0.68	22.2	22.2 clear	Trachemys scripta	_	1.47	1.47 VES	adult	12	4	2001
bottomland hardwoods	2.18	27.8	27.8 clear	Trachemys scripta	1	0.46	0.46 VES	adult	7	თ	2002
bottomland hardwoods	0.45	16.7	16.7 clear	×	0		×	×	12	4	2001
bottomland hardwoods	1.43	17.5	17.5 overcast	×	0		×	×	-	17	2002